

F1 Cont
G1 Cont.

information, said method performed during a communication session and comprising [comprising the steps of]:

parsing said text-based information within said electronic document; recognizing a text-based telephone number contained within said text-based information of [within]said parsed electronic document, said text-based telephone number including [comprising] a plurality of number symbols and at least one text symbol interspersed with said plurality of number symbols; and adding code to convert said recognized text-based telephone number to a selectable iconic telephone number.

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2. (Amended Three Times) The method of Claim 1, further comprising [the steps of]:

transparently disconnecting from said communication session upon selection of said selectable iconic representation of said recognized text-based telephone number to initiate a telephone call session.

E3

3. (Amended Twice) The method of Claim 2, further comprising [the steps of]:

recognizing the termination of said telephone call session; and transparently re-connecting to said communication session.

E4

Sub 4 (Amended Twice) The method of Claim 1, wherein said parsing [step] further comprises [the step of]:

applying a parsing algorithm to said electronic document to pattern-recognize a text-based telephone number contained therein.

E5

Sub 5 (Amended Three Times) The method of Claim 1, further comprising [the step of]:

F3
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transmitting or displaying said electronic document with said iconic representation of said recognized text-based telephone number to a complementary device.

E4

7. (Amended Twice) The method of Claim 1, wherein said electronic document is a Web page, and further comprising [the steps of]:
converting an HTML code representation of said Web page; and
adding a representation that iconifies said recognized text-based telephone number

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(Amended Three Times) The method of Claim 4, wherein said [step of] applying a parsing algorithm further comprises [the steps of]:
developing a set of Picture Formats for the patterns of telephone [phone] numbers;
reading an accessed electronic document;
checking every character in said text-based information within said electronic document to determine if said character is a numeric character;
applying a pattern-recognition algorithm to sequentially check a character following an identified numeric character to determine if said following character is any of a numeric or an interspersed text or punctuation character;
caching a series of consecutive identified [said] numeric characters; and
comparing said cached series to said Picture Formats, [;]
wherein a matching format indicates a text-based telephone number.

S8 G8

13. (Amended Four Times) The method of Claim 2, wherein said [step of] transparently disconnecting from said communication session upon selection of said iconified text-based telephone number and calling said telephone number further comprises [the steps of]:
selecting said selectable iconic representation of said recognized text-based telephone number in a display of an access device;

[said access device] initiating a telephone call with said access device to said selected recognized text-based telephone number if a telephone line or sufficient bandwidth is available;

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[said access device] transparently disconnecting said access device from said session if a telephone line is not available, and thereupon initiating a telephone call to said selected recognized text-based telephone number;

[said access device] recognizing with said access device the termination of said telephone call; and

[said access device] optionally transparently re-connecting said access device to said communication session.

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14. (Amended Three Times) The method of Claim 1, further comprising [the step of]:

automatically storing said selectable iconic representation of said recognized text-based telephone number in an address book.

E10

15. (Amended Three Times) A method for recognizing and accessing telephone numbers from a Web page, comprising [the steps of]:

parsing the HTML code of a Web page accessed during an internet session;
applying a parsing algorithm to text-based information other than previously iconified information within said Web page to pattern-recognize a text-based telephone number contained therein;

converting said HTML code to a representation of said Web page;
adding coding to said representation of said Web page to produce a selectable telephone number icon associated with said recognized text-based telephone number;

transmitting said representation of said Web page with said selectable telephone number icon to an access device for display;

transparently disconnecting from said Internet session upon selection of said selectable telephone number icon and calling said telephone number;

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Cont.

recognizing the termination of said telephone call; and
optionally transparently re-connecting to said Internet session.

16. (Amended Three Times) The method of Claim 15, wherein said [step of] applying said parsing algorithm further comprises [the steps of]:

developing a set of Picture Formats for the patterns of text-based telephone [phone] numbers;

reading an accessed HTML document using a software program on a server;

checking every character in said text-based information of said HTML document to determine if said checked character is a numeric character;

using a pattern-recognition algorithm to sequentially check a character following an identified number to determine if said character is any of numeric or an interspersed text or punctuation character;

caching a series of consecutive numeric characters; and

comparing said cached [caches] series to said Picture Formats, [;]

wherein a matching format indicates a text-based telephone number.

E¹¹

20. (Amended Twice) The method of Claim 15, further comprising [the step of] automatically storing said selectable telephone number icon and related information in an address book.

22. (Amended Twice) A system for recognizing and accessing a text-based telephone number a Web page, comprising:

a module for parsing the HTML code of a Web page accessed during an Internet session, wherein said Web page includes text-based information other than previously iconified information;

a parsing algorithm used by said module to pattern-recognize said text-based telephone number contained in said text-based information other than said previously iconified information of said Web page;

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*E 10
E Cont.*
[The system of Claim 21, further comprising:] a conversion module used to convert said parsed HTML code to representation of said Web page; and an iconifying module used by said conversion module to add to said representation coding to iconify said recognized test-based telephone number.

New Claims:

Please add new claims 24 through 65

Subj 10
(New) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method on an electronic document containing text-based information other than previously iconified information, said method performed during a communication session and comprising:

G 10
parsing said text-based information within said electronic document;
recognizing a text-based telephone number contained within said text-based information of said parsed electronic document, said text-based telephone number including a plurality of number symbols and at least one text symbol interspersed with said plurality of number symbols; and
adding code to convert said recognized text-based telephone number to a selectable iconic telephone number.

25. (New) The device of Claim 24, further comprising:
transparently disconnecting from said communication session upon selection of said selectable iconic representation of said recognized text-based telephone number; and
automatically dialing said selected recognized text-based telephone number to initiate a telephone call session.

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26. (New) The device of Claim 25, further comprising:
recognizing the termination of said telephone call session; and

transparently re-connecting to said communication session.

Subj
G1 of G1 Cont.
Subj 27. (New) The device of Claim 24, wherein said parsing further comprises:

applying a parsing algorithm to said electronic document to pattern-recognize a text-based telephone number contained therein.

28. (New) The device of Claim 24, further comprising:

transmitting or displaying said electronic document with said iconic representation of said recognized text-based telephone number to a complementary device.

Subj P.G1
Subj 29. (New) The device of Claim 28, wherein said complementary device is an Internet-capable telephone.

30. (New) The device of Claim 24, wherein said electronic document is a Web page, and further comprising:

converting an HTML code representation of said Web page; and adding a representation that iconifies said recognized text-based telephone number.

Subj 31
Subj 31. (New) The device of Claim 30, wherein said HTML code representation is translated to another format at either a server or a client device.

Subj G1
Subj 32. (New) The device of Claim 24, wherein said selectable iconic telephone number of said recognized text-based telephone number is identified by one of a button surrounding said recognized text-based number, font appearance, underlining, or highlighting.

33. (New) The device of Claim 24, wherein all recognized text-based telephone numbers are each converted to an iconic representation.

34. (New) The device of Claim 24, wherein recognized text-based telephone numbers meeting specific criteria are each converted to iconic representations.

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Claim 25. (New) The device of Claim 27, wherein said applying a parsing algorithm further comprises:

developing a set of Picture Formats for the patterns of telephone numbers;
reading an accessed electronic document;
checking every character in said text-based information within said electronic document to determine if said character is a numeric character;
applying a pattern-recognition algorithm to sequentially check a character following an identified numeric character to determine if said following character is any of a numeric or an interspersed text or punctuation character;
caching a series of consecutive identified numeric characters; and
comparing said cached series to said Picture Formats,
wherein a matching format indicates a text-based telephone number.

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Claim 26. 36. (New) The device of Claim 25, wherein said transparently disconnecting from said communication session upon selection of said iconified text-based telephone number and calling said telephone number further comprises:

selecting said selectable iconic representation of said recognized text-based telephone number in a display of an access device;
initiating a telephone call with said access device to said selected recognized text-based telephone number if a telephone line or sufficient bandwidth is available;

transparently disconnecting said access device from said session if a telephone line is not available, and thereupon initiating a telephone call to said selected recognized text-based telephone number;

recognizing with said access device the termination of said telephone call; and

optionally transparently re-connecting said access device to said communication session.

37. (New) The device of Claim 24, further comprising:

automatically storing said selectable iconic representation of said recognized text-based telephone number in an address book.

38. (New) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for recognizing and accessing telephone numbers from a Web page, said method comprising:

parsing the HTML code of a Web page accessed during an Internet session; applying a parsing algorithm to text-based information other than previously iconified information within said Web page to pattern-recognize a text-based telephone number contained therein;

converting said HTML code to a representation of said Web page;

adding coding to said representation of said Web page to produce a selectable telephone number icon associated with said recognized text-based telephone number;

transmitting said representation of said Web page with said selectable telephone number icon to an access device for display;

transparently disconnecting from said Internet session upon selection of said selectable telephone number icon and calling said telephone number;

recognizing the termination of said telephone call; and

optionally transparently re-connecting to said Internet session.

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39. (New) The device of Claim 38, wherein said applying said parsing algorithm further comprises:

developing a set of Picture Formats for the patterns of text-based phone numbers;

reading an accessed HTML document using a software program on a server;

checking every character in said text-based information of said HTML document to determine if said checked character is a numeric character;

using a pattern-recognition algorithm to sequentially check a character following an identified number to determine if said character is any of a numeric or an interspersed text or punctuation character;

caching a series of consecutive numeric characters; and

comparing said cached series to said Picture Formats,

wherein a matching format indicates a text-based telephone number.

40. (New) The device of Claim 38, wherein said iconified telephone number is identified by one of a button surrounding the text-based telephone number, font appearance, underlining, or highlighting.

41. (New) The device of Claim 38, wherein all recognized text-based telephone numbers are iconified.

42. (New) The device of Claim 38, wherein text-based telephone numbers meeting specific criteria are iconified.

43. (New) The device of Claim 38, further comprising:

automatically storing said selectable telephone number icon and related information in an address book.

44. (New) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for recognizing and accessing a text-based telephone number from a Web page, said program of instructions comprising:

a module for parsing the HTML code of a Web page accessed during an Internet session, wherein said Web page includes text-based information other than previously iconified information;

a parsing algorithm used by said module to pattern-recognize said text-based telephone number contained in said text-based information other than said previously iconified information of said Web page;

a conversion module used to convert said parsed HTML code to a representation of said Web page; and

an iconifying module used by said conversion module to add to said representation coding to iconify said recognized text-based telephone number.

Sub 4510
(New) An apparatus for processing an electronic document containing text-based information other than previously iconified information, said processing performed during a communication session, said apparatus comprising:

means for parsing said text-based information within said electronic document;

means for recognizing a text-based telephone number contained within said text-based information of said parsed electronic document, said text-based telephone number including a plurality of number symbols and at least one text symbol interspersed with said plurality of number symbols; and

means for adding code to convert said recognized text-based telephone number to a selectable iconic telephone number.

46. (New) The apparatus of Claim 45, further comprising:

means for transparently disconnecting from said communication session upon selection of said selectable iconic representation of said recognized text-based telephone number; and

means for automatically dialing said selected recognized text-based telephone number to initiate a telephone call session.

47. (New) The apparatus of Claim 46, further comprising:

means for recognizing the termination of said telephone call session; and means for transparently re-connecting to said communication session.

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Sub 48. (New) The apparatus of Claim 45, wherein said means for parsing further comprises:

means for applying a parsing algorithm to said electronic document to pattern-recognize a text-based telephone number contained therein.

49. (New) The apparatus of Claim 45, further comprising:

means for transmitting or displaying said electronic document with said iconic representation of said recognized text-based telephone number to a complementary device.

sub G1

50. (New) The apparatus of Claim 49, wherein said complementary device is an Internet-capable telephone.

51. (New) The apparatus of Claim 45, wherein said electronic document is a Web page, and further comprising:

means for converting an HTML code representation of said Web page; and means for adding a representation that iconifies said recognized text-based telephone number.

Sub 50. (New) The apparatus of Claim 51, wherein said HTML code representation is translated to another format at either a server or a client device.

Sub 50. (New) The apparatus of Claim 45, wherein said selectable iconic telephone number of said recognized text-based telephone number is identified by one of a button surrounding said recognized text-based number, font appearance, underlining or highlighting.

Sub 50. (New) The apparatus of Claim 45, wherein all recognized text-based telephone numbers are each converted to an iconic representation.

Sub 50. (New) The apparatus of Claim 45, wherein recognized text-based telephone numbers meeting specific criteria are each converted to iconic representations.

Sub 50. (New) The apparatus of Claim 48, wherein said means for applying a parsing algorithm further comprises:

means for developing a set of Picture Formats for the patterns of phone numbers;

means for reading an accessed electronic document;

means for checking every character in said text-based information within said electronic document to determine if said character is a numeric character;

means for sequentially checking a character following an identified numeric character to determine if said following character is any of a numeric or an interspersed text or punctuation character;

means for caching a series of consecutive identified numeric characters; and

means for comparing said cached series to said Picture Formats, wherein a matching format indicates a text-based telephone number.

57. (New) The apparatus of Claim 46, wherein said means for transparently disconnecting from said communication session upon selection of said iconified text-based telephone number and calling said telephone number further comprises:

means for selecting said selectable iconic representation of said recognized text-based telephone number in a display of an access device;

means for initiating a telephone call with said access device to said selected recognized text-based telephone number if a telephone line or sufficient bandwidth is available;

means transparently disconnecting said access device from said session if a telephone line is not available, and thereupon initiating a telephone call to said selected recognized text-based telephone number;

means for recognizing with said access device the termination of said telephone call; and

means for optionally transparently re-connecting said access device to said communication session.

58. (New) The apparatus of Claim 45, further comprising:

means for automatically storing said selectable iconic representation of said recognized text-based telephone number in an address book.

Subj (New) An apparatus for recognizing and accessing telephone numbers a Web page, comprising:

means for parsing the HTML code of a Web page accessed during an Internet session;

means for applying a parsing algorithm to text-based information other than previously iconified information within said Web page to pattern-recognize a text-based telephone number contained therein;

means for converting said HTML code to a representation of said Web page;

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means for adding coding to said representation of said Web page to produce a selectable telephone number icon associated with said recognized text-based telephone number;

means for transmitting said representation of said Web page with said selectable telephone number icon to an access device for display;

means for transparently disconnecting from said Internet session upon selection of said selectable telephone number icon and calling said telephone number;

means for recognizing the termination of said telephone call; and

means for optionally transparently re-connecting to said Internet session.

G10 Cont.

60. (New) The apparatus of Claim 59, wherein said means for applying said parsing algorithm further comprises:

means for developing a set of Picture Formats for the patterns of text-based phone numbers;

means for reading an accessed HTML document using a software program on a server;

means for checking every character in said text-based information of said HTML document to determine if said checked character is a numeric character;

means for sequentially checking a character following an identified number to determine if said character is any of a numeric or an interspersed text or punctuation character;

means for caching a series of consecutive numeric characters; and

means for comparing said cached series to said Picture Formats,

wherein a matching format indicates a text-based telephone number.

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61. (New) The apparatus of Clam 59, wherein said iconified telephone number is identified by one of a button surrounding the text-based telephone number, font appearance, underlining, or highlighting.

62. (New) The apparatus of Claim 59, wherein all recognized text-based telephone numbers are iconified.

63. (New) The apparatus of Claim 59, wherein text-based telephone numbers meeting specific criteria are iconified.

64. (New) The apparatus of Claim 59, further comprising means for automatically storing said selectable telephone number icon and related information in an address book.

65. (New) An apparatus for recognizing and accessing a text-based telephone number from a Web page, comprising:

parsing module means for parsing the HTML code of a Web page accessed during an Internet session, wherein said Web page includes text-based information other than previously iconified information;

parsing algorithm means used by said parsing module means to pattern-recognize said text-based telephone number contained in said text-based information other than said previously iconified information of said Web page;

conversion module means used to convert said parsed HTML code to a representation of said Web page; and

iconifying module means used by said conversion module means to add to said representation coding to iconify said recognized text-based telephone number.

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